

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P200336

Luminaire Tested: **GAW-AF-02-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-E1-T2-7050
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12190 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

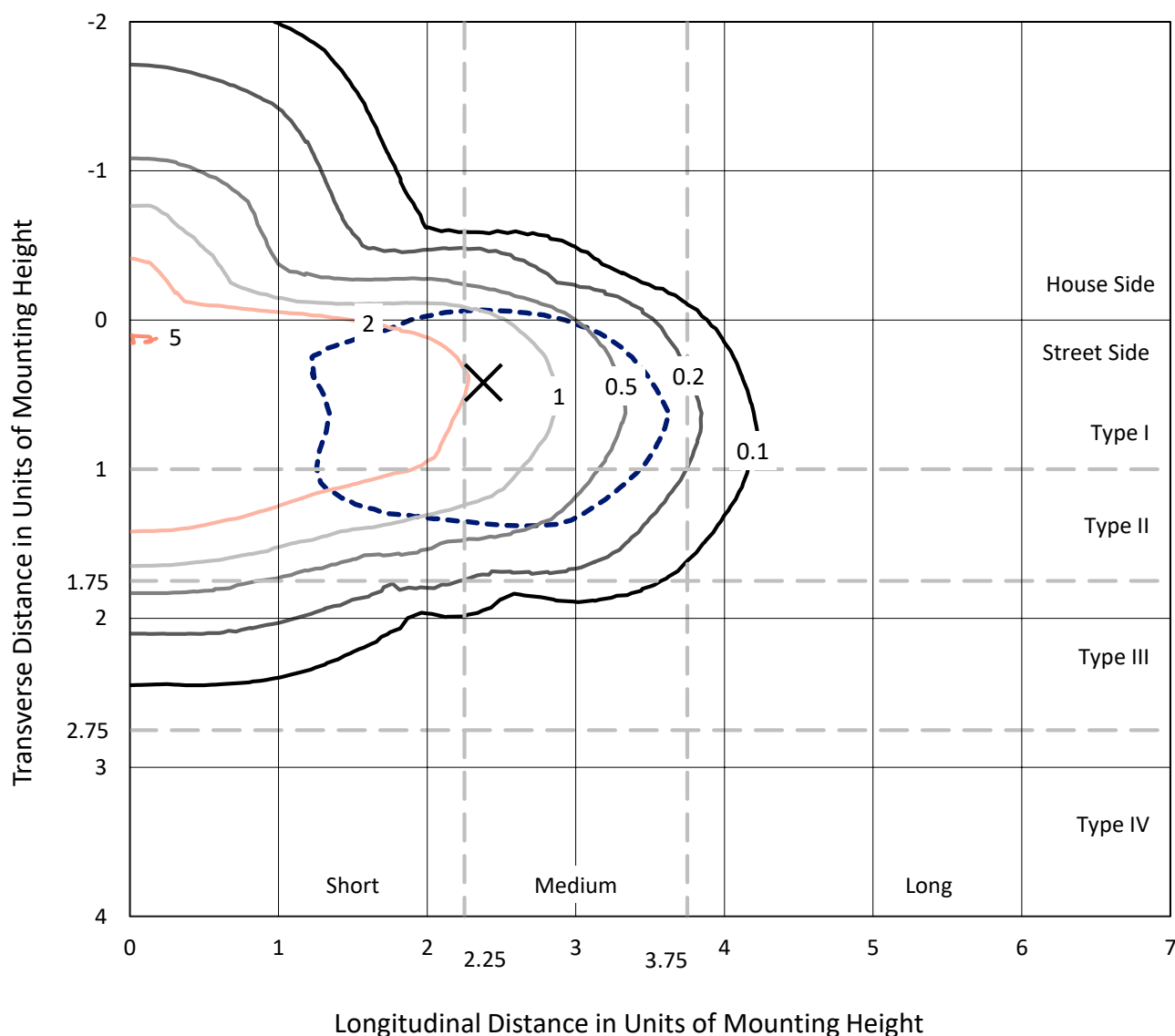


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

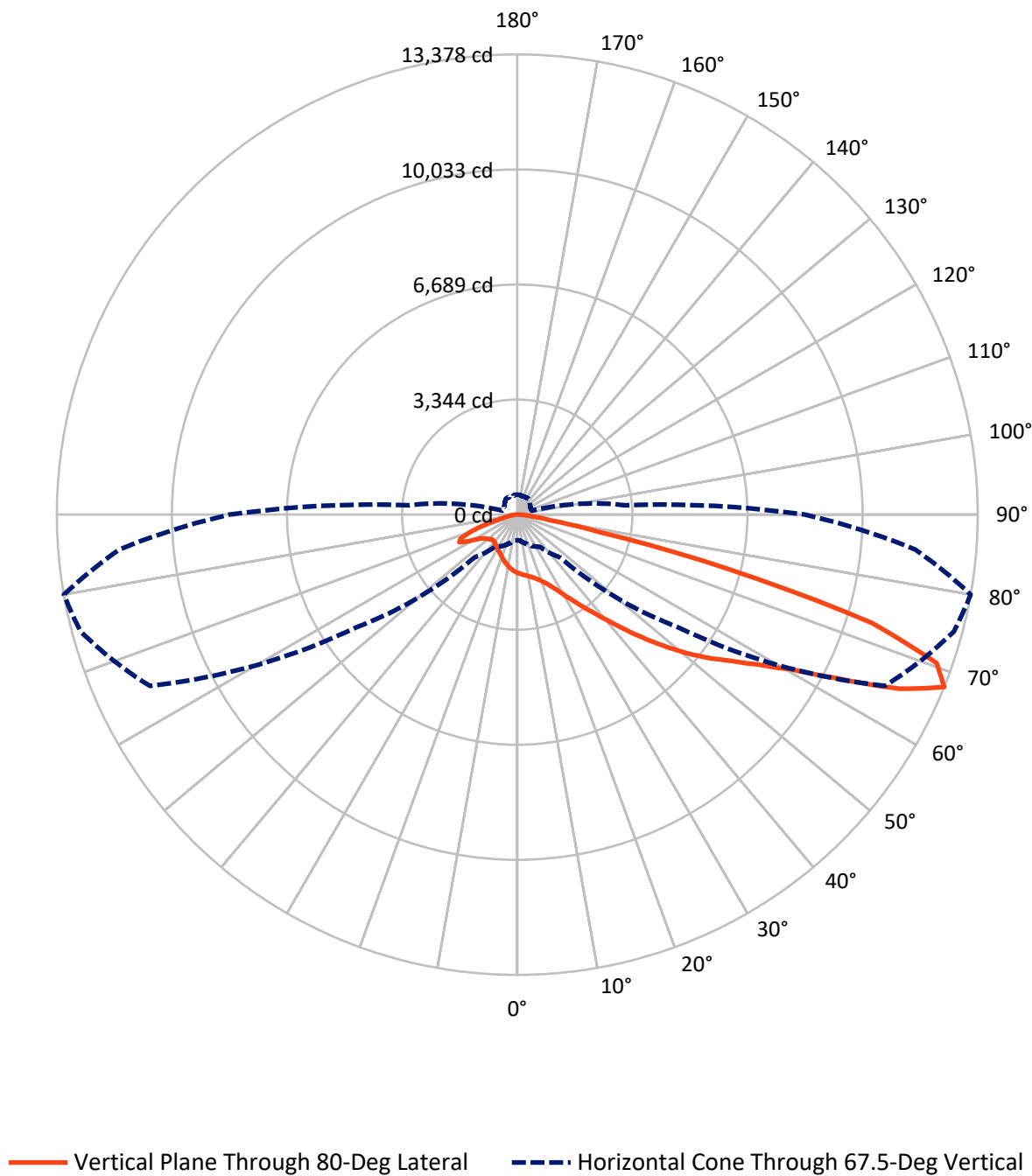


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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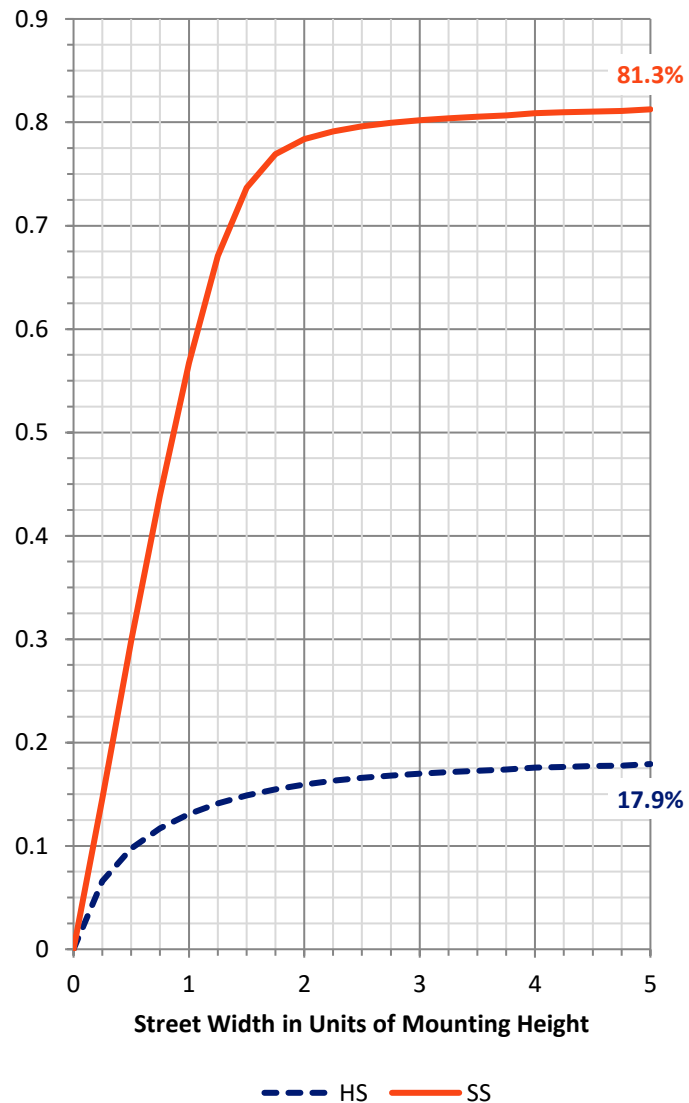
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2244.9	0.0	2244.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9945.1	0.0	9945.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	12190.0	0.0	12190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.3
10°-20°	450.0	3.7
20°-30°	744.9	6.1
30°-40°	1218.5	10.0
40°-50°	1967.3	16.1
50°-60°	2840.2	23.3
60°-70°	3134.4	25.7
70°-80°	1444.8	11.9
80°-90°	233.7	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12190.0	100.0
0°-180°	12190.0	100.0

Coefficient of Utilization



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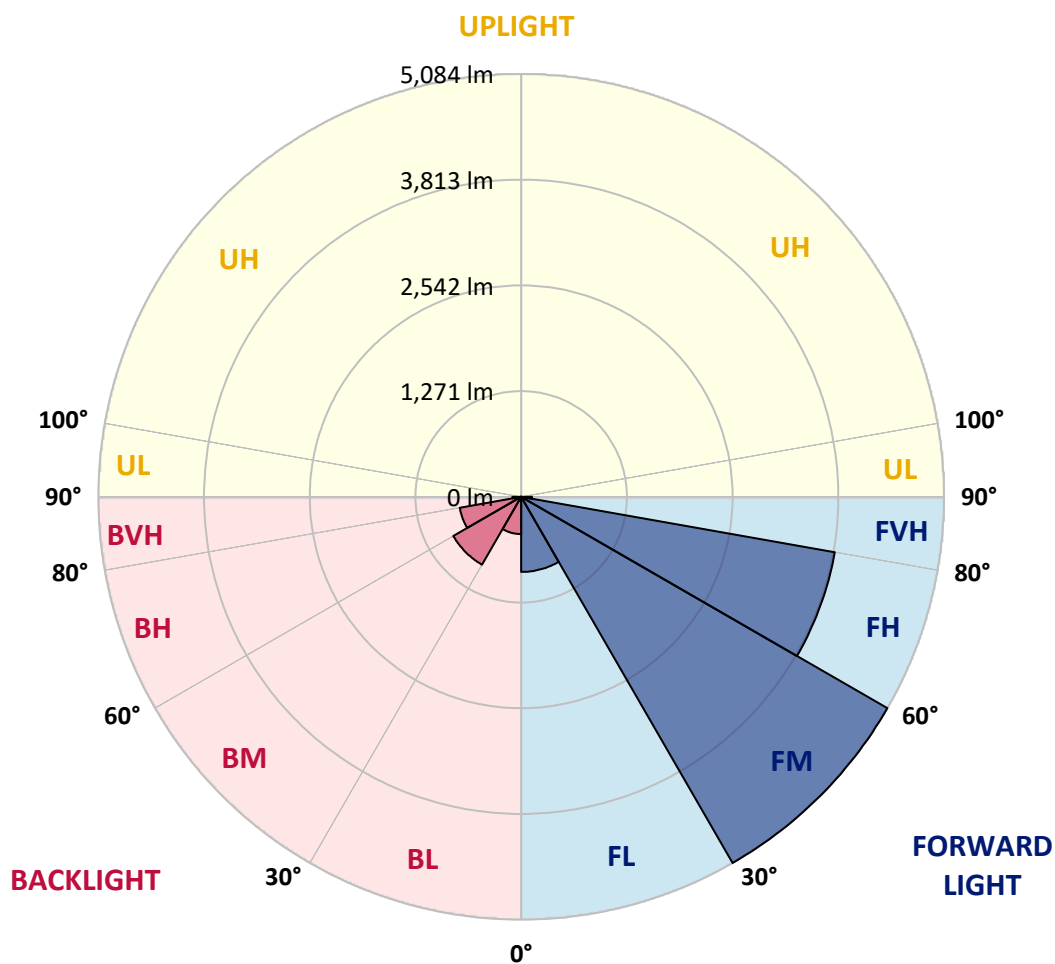
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.3	7.4			
FM	(30°-60°)	5084.1	41.7			
FH	(60°-80°)	3829.2	31.4			G2/5000
FVH	(80°-90°)	128.5	1.1			G2/225
BL	(0°-30°)	447.9	3.7	B1/500		
BM	(30°-60°)	941.9	7.7	B1/1000		
BH	(60°-80°)	749.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	105.2	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5
2.5°	1852.6	1841.8	1843.6	1840.6	1831.6	1816.0	1799.2	1768.6	1736.8	1720.0	1706.7
5°	2007.4	2004.4	2000.2	1990.6	1967.8	1935.4	1895.2	1841.2	1783.0	1752.4	1723.0
7.5°	2123.2	2121.4	2116.0	2110.0	2087.8	2048.8	1988.2	1911.4	1826.8	1784.8	1739.2
10°	2132.8	2135.8	2140.0	2156.2	2159.2	2138.2	2076.4	1983.4	1872.4	1818.4	1760.2
12.5°	2051.2	2057.8	2074.0	2115.4	2159.2	2185.0	2153.2	2059.0	1925.8	1860.4	1786.6
15°	1943.2	1946.8	1966.6	2023.6	2102.2	2182.0	2212.1	2142.4	1994.8	1914.4	1826.2
17.5°	1897.0	1898.8	1912.6	1950.4	2023.6	2137.6	2245.1	2233.1	2079.4	1981.6	1874.8
20°	1873.6	1877.8	1897.6	1934.8	1981.0	2080.6	2249.9	2330.9	2180.2	2065.6	1936.0
22.5°	1940.2	1938.4	1945.6	1964.2	2003.2	2063.2	2246.3	2431.7	2308.7	2173.6	2015.8
25°	2095.6	2102.2	2089.6	2068.6	2081.2	2123.2	2265.5	2540.9	2469.5	2312.3	2120.2
27.5°	2317.1	2310.5	2291.9	2242.7	2216.9	2234.9	2329.1	2658.5	2669.3	2494.7	2258.3
30°	2537.9	2532.5	2514.5	2454.5	2401.7	2386.7	2452.7	2793.6	2907.6	2713.8	2427.5
32.5°	2767.2	2761.2	2744.4	2684.3	2620.7	2585.9	2628.5	2949.6	3188.5	2975.4	2626.7
35°	3049.8	3038.4	3003.0	2919.6	2857.2	2830.2	2850.0	3145.8	3512.5	3285.1	2868.6
37.5°	3315.7	3333.1	3297.1	3181.8	3100.8	3091.2	3113.4	3385.3	3861.8	3631.3	3146.4
40°	3582.7	3585.7	3553.3	3459.1	3375.7	3360.1	3415.9	3675.7	4274.1	4045.4	3484.3
42.5°	3858.8	3864.8	3810.2	3723.2	3661.9	3664.9	3728.6	4016.0	4747.0	4533.3	3873.2
45°	4185.9	4194.9	4134.8	4020.8	3965.0	4077.2	4050.8	4397.7	5265.5	5087.8	4319.7
47.5°	4527.9	4541.7	4496.1	4389.3	4319.7	4473.9	4373.1	4820.8	5823.6	5682.6	4810.0
50°	4714.6	4734.4	4778.8	4771.0	4756.0	4730.2	4732.6	5274.5	6399.1	6301.9	5314.1
52.5°	4614.3	4613.7	4775.8	4972.6	5182.7	5198.3	5170.7	5752.8	6936.8	6907.4	5788.8
55°	4155.8	4187.1	4432.5	4813.6	5387.3	5745.6	5827.2	6300.7	7464.9	7499.1	6270.7
57.5°	3392.5	3418.3	3749.6	4280.7	5111.2	6070.8	6761.0	7097.0	8055.4	8215.1	6912.2
60°	2300.9	2332.1	2683.1	3321.1	4368.3	5889.6	7649.8	8518.1	8762.4	9125.5	7812.4
62.5°	1352.1	1380.3	1666.5	2095.0	3075.6	5047.6	8039.8	10540.0	9885.2	10499.1	9185.5
65°	930.8	950.0	1089.2	1304.1	1767.4	3399.7	7556.1	11935.8	11613.0	12201.1	10777.6
67.5°	749.0	746.6	857.0	1003.4	1137.8	1753.0	5713.8	11778.0	13132.5	13377.9	11604.0
70°	616.9	614.5	689.5	810.8	909.2	987.2	3112.2	9939.2	12822.8	12922.4	10843.0
72.5°	516.1	518.5	566.5	656.5	746.0	743.6	1367.7	6992.0	10087.5	10776.4	8643.6
75°	435.7	436.9	468.7	532.3	605.5	598.9	741.8	3788.0	5863.8	6343.3	4791.4
77.5°	370.9	372.1	392.5	427.9	480.1	477.7	541.3	1636.5	2446.1	2416.1	1638.9
80°	330.7	330.7	340.3	346.9	375.7	364.9	401.5	786.2	1034.0	954.8	654.1
82.5°	259.3	260.5	319.3	316.9	295.9	282.1	282.1	463.3	547.9	506.5	382.9
85°	145.8	145.2	205.8	248.5	260.5	198.6	196.8	259.3	298.3	262.9	185.4
87.5°	62.4	63.6	95.4	110.4	147.6	123.6	121.8	133.8	151.8	131.4	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5	1693.5
2.5°	1694.1	1678.5	1644.3	1601.7	1563.3	1538.1	1515.3	1482.3	1484.1	1461.3	1444.5
5°	1692.9	1660.5	1581.3	1487.1	1396.5	1331.1	1281.9	1237.5	1226.7	1205.6	1193.0
7.5°	1694.1	1641.3	1508.1	1357.5	1245.3	1162.4	1120.4	1097.0	1091.6	1084.4	1085.0
10°	1698.3	1623.9	1427.7	1236.3	1118.6	1064.0	1053.8	1061.0	1069.4	1071.8	1072.4
12.5°	1707.9	1608.3	1339.5	1128.2	1039.4	1022.6	1040.0	1064.6	1080.8	1088.6	1088.0
15°	1729.6	1596.3	1254.9	1043.6	995.6	1004.6	1037.0	1071.8	1095.2	1106.0	1106.6
17.5°	1753.0	1578.9	1167.8	978.8	963.2	986.0	1026.2	1067.0	1095.8	1107.8	1110.2
20°	1783.6	1557.3	1076.6	930.2	932.6	958.4	996.2	1037.0	1068.8	1079.0	1083.8
22.5°	1823.8	1533.9	996.8	890.6	897.8	917.6	947.0	982.4	1010.0	1014.8	1019.0
25°	1877.8	1508.7	933.2	854.6	857.6	869.0	888.8	909.8	929.0	923.6	927.8
27.5°	1950.4	1487.1	885.8	821.6	816.2	818.6	828.8	835.4	845.6	830.6	832.4
30°	2035.6	1463.7	849.2	792.8	777.8	773.6	776.0	779.6	787.4	767.0	764.0
32.5°	2134.6	1435.5	815.0	767.6	746.6	738.2	739.4	749.0	779.0	766.4	759.8
35°	2249.9	1403.7	779.0	740.0	725.5	713.5	712.3	742.4	831.8	824.0	818.0
37.5°	2384.9	1371.9	743.0	708.7	709.9	696.7	692.5	726.7	842.0	811.4	807.2
40°	2556.5	1355.1	712.3	675.7	690.7	688.9	680.5	697.9	774.8	718.9	711.7
42.5°	2769.0	1357.5	689.5	640.3	667.9	687.1	673.9	674.5	702.1	660.1	653.5
45°	3031.2	1385.7	673.3	612.1	642.1	685.3	671.5	661.9	664.3	642.1	638.5
47.5°	3337.3	1443.9	661.9	588.7	617.5	678.7	670.9	658.3	652.9	640.9	637.9
50°	3677.6	1528.5	653.5	566.5	595.3	667.9	671.5	654.7	648.7	643.9	642.1
52.5°	4011.8	1625.1	640.9	547.3	577.9	654.7	673.3	651.1	644.5	640.9	639.1
55°	4384.5	1745.8	621.7	531.1	563.5	637.9	673.3	645.7	638.5	639.1	638.5
57.5°	4888.0	1940.8	598.9	517.3	546.1	617.5	661.9	639.7	630.7	631.3	631.9
60°	5674.8	2284.7	571.3	503.5	524.5	593.5	646.3	626.5	617.5	619.9	620.5
62.5°	6831.8	2789.4	535.3	483.1	501.7	567.7	624.7	609.7	600.7	606.7	606.7
65°	8034.4	3234.7	490.9	457.3	477.7	539.5	597.7	588.7	579.7	593.5	592.9
67.5°	8357.9	3135.0	446.5	429.1	453.7	508.3	565.3	560.5	555.7	579.7	578.5
70°	7424.7	2516.9	405.7	400.3	427.3	474.7	530.5	530.5	527.5	545.5	541.3
72.5°	5656.8	1784.8	366.7	369.7	397.3	438.1	492.7	496.9	492.1	501.1	497.5
75°	3028.2	1021.4	327.7	336.1	360.1	400.9	450.7	454.9	451.9	451.3	453.1
77.5°	1006.4	499.3	286.9	300.1	321.1	362.5	406.9	413.5	406.3	405.1	404.5
80°	448.3	313.9	241.8	259.3	277.9	318.7	360.7	366.1	358.3	369.1	355.3
82.5°	288.1	206.4	193.8	213.0	231.0	274.9	314.5	315.7	308.5	358.3	305.5
85°	139.8	127.8	145.8	163.2	178.8	216.0	260.5	261.1	243.0	221.4	213.6
87.5°	69.6	74.4	97.2	112.8	120.6	148.2	189.6	186.0	178.2	162.0	149.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)